ELSEVIER

ISPRS Journal of Photogrammetry & Remote Sensing 54 (1999) 375–376

PHOTOGRAMMETRY & REMOTE SENSING

# Author Index, Volume 54

**Ackermann, F.**
Airborne laser scanning—present status and future expectations. 54/2–3 (Jul 99): 64–67

**Agouris, P.**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**Avena, G.**
see Ricotta, C. 54/5 (Dec 99): 325–331

**Axelsson, P.**
Processing of laser scanner data—algorithms and applications. 54/2–3 (Jul 99): 138–147

**Baltsavias, E.P.**
A comparison between photogrammetry and laser scanning. 54/2–3 (Jul 99): 83–94

**Baltsavias, E.P.**
Airborne laser scanning: basic relations and formulas. 54/2–3 (Jul 99): 199–214

**Baltsavias, E.P.**
Airborne laser scanning: existing systems and firms and other resources. 54/2–3 (Jul 99): 164–198

**Blair, J.B.**
The Laser Vegetation Imaging Sensor: a medium-altitude, digitisation-only, airborne laser altimeter for mapping vegetation and topography. 54/2–3 (Jul 99): 115–122

**Brenner, C.**
see Haala, N. 54/2–3 (Jul 99): 130–137

**Cannon, M.E.**
see Skone, S. 54/4 (Sep 99): 279–288

**Carswell, J.**
see Agouris, P. 54/4 (Sep 99): 263–272

**Chakraborty, M.**
see Panigrahy, S. 54/4 (Sep 99): 254–262

**Chen, X.**
Development of a 1-km landcover dataset of China using AVHRR data. 54/5 (Dec 99): 305–316

**Cintra, J.P.**
see Da Costa, S.M.F. 54/1 (Feb 99): 41–49

**Clevers, J.G.P.W.**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Da Costa, S.M.F.**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

**De Palma, A.**
see Ricotta, C. 54/5 (Dec 99): 325–331

**Ebner, H.**
Orientation of MOMS-02/D2 and MOMS-2P/PRIRODA imagery. 54/5 (Dec 99): 332–341

**Ebrahim, M.A.**
see Hanke, K. 54/1 (Feb 99): 35–40

**Förstner, W.**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**Gomes Pereira, L.M.**
Suitability of laser data for deriving geographical information. A case study in the context of management of fluvial zones. 54/2–3 (Jul 99): 105–114

**Gomes Pereira, L.M.**
Suitability of laser data for DTM generation: a case study in the context of road planning and design. 54/4 (Sep 99): 244–253

**Gonçalves, J.G.M.**
see Sequeira, V. 54/1 (Feb 99): 1–22

**Gülch, E.**
see Förstner, W. 54/1 (Feb 99): 23–34

**Haala, N.**
Extraction of buildings and trees in urban environments. 54/2–3 (Jul 99): 130–137

**Hanke, K.**
The 'Digital Projector'. Raytracing as a tool for digital close-range photogrammetry. 54/1 (Feb 99): 35–40

**Hasegawa, H.**
see Murakami, H. 54/2–3 (Jul 99): 148–152

**Hofton, M.A.**
see Blair, J.B. 54/2–3 (Jul 99): 115–122

**Hogg, D.**
see Sequeira, V. 54/1 (Feb 99): 1–22

**Irish, J.L.**
Scanning laser mapping of the coastal zone: the SHOALS system. 54/2–3 (Jul 99): 123–129

**Iwanami, E.**
see Murakami, H. 54/2–3 (Jul 99): 148–152

**Janssen, L.L.F.**
see Gomes Pereira, L.M. 54/4 (Sep 99): 244–253

**Kornus, W.**
see Ebner, H. 54/5 (Dec 99): 332–341

**Kübler, S.**
GeoHyp: an adaptive human interface for geologic maps and their databases. 54/4 (Sep 99): 234–243

**Kundu, N.**
see Panigrahy, S. 54/4 (Sep 99): 254–262

**Lillycrop, W.J.**
see Irish, J.L. 54/2–3 (Jul 99): 123–129

**Lohr, U.**
see Wehr, A. 54/2–3 (Jul 99): 68–82

**Maas, H.-G.**
Two algorithms for extracting building models from raw laser altimetry data. 54/2–3 (Jul 99): 153–163

**Maas, H.-G.**
Image sequence based automatic multi-camera system calibration techniques. 54/4 (Sep 99): 352–359

**Manjunath, K.R.**
see Panigrahy, S. 54/4 (Sep 99): 254–262

**Metternicht, G.**
Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. 54/4 (Sep 99): 221–233

**Murai, S.**
see Pahari, K. 54/5 (Dec 99): 317–324

**Murai, S.**
Development of polygon shift method for generating 3D view map of buildings. 54/5 (Dec 99): 342–351

**Murakami, H.**
Change detection of buildings using an airborne laser scanner. 54/2–3 (Jul 99): 148–152

**Nakagawa, K.**
see Murakami, H. 54/2–3 (Jul 99): 148–152

**Neusch, T.**
Application of the Dubois-model using experimental synthetic aperture radar data for the determination of soil moisture and surface roughness. 54/4 (Sep 99): 273–278

**Ng, K.**
see Sequeira, V. 54/1 (Feb 99): 1–22

**Noerdlinger, P.D.**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Ohlhof, T.**
see Ebner, H. 54/5 (Dec 99): 332–341

**Ono, K.**
see Murai, S. 54/5 (Dec 99): 342–351

**Pahari, K.**
Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**Panigrahy, S.**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**Parihar, J.S.**
see Panigrahy, S. 54/4 (Sep 99): 254–262

**Petzold, B.**
Laser scanning—surveying and mapping agencies are using a new technique for the derivation of digital terrain models. 54/2–3 (Jul 99): 95–104

**Phonekeo, V.**
see Murai, S. 54/5 (Dec 99): 342–351

**Putz, E.**
see Ebner, H. 54/5 (Dec 99): 332–341

**Rabine, D.L.**
see Blair, J.B. 54/2–3 (Jul 99): 115–122

**Radhadevi, P.V.**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**Reiss, P.**
see Petzold, B. 54/2–3 (Jul 99): 95–104

**Ricotta, C.**
Mapping and monitoring net primary productivity with AVHRR NDVI time-series: statistical equivalence of cumulative vegetation indices. 54/5 (Dec 99): 325–331

**Sequeira, V.**
Automated reconstruction of 3D models from real environments. 54/1 (Feb 99): 1–22

**Shibata, T.**
see Murakami, H. 54/2–3 (Jul 99): 148–152

**Skone, S.**
Ionospheric effects on differential GPS applications during auroral substorm activity. 54/4 (Sep 99): 279–288

**Stefanidis, A.**
see Agouris, P. 54/4 (Sep 99): 263–272

**Sties, M.**
see Neusch, T. 54/4 (Sep 99): 273–278

**Stössel, W.**
see Petzold, B. 54/2–3 (Jul 99): 95–104

**Tateishi, R.**
see Chen, X. 54/5 (Dec 99): 305–316

**Voisard, A.**
see Kübler, S. 54/4 (Sep 99): 234–243

**Vosselman, G.**
see Maas, H.-G. 54/2–3 (Jul 99): 153–163

**Wang, C.**
see Chen, X. 54/5 (Dec 99): 305–316

**Wehr, A.**
Airborne laser scanning—an introduction and overview. 54/2–3 (Jul 99): 68–82

**Wicherson, R.J.**
see Gomes Pereira, L.M. 54/2–3 (Jul 99): 105–114

**Wolfart, E.**
see Sequeira, V. 54/1 (Feb 99): 1–22

**Yasue, S.**
see Murai, S. 54/5 (Dec 99): 342–351

**Zhang, Y.**
Optimisation of building detection in satellite images by combining multispectral classification and texture filtering. 54/1 (Feb 99): 50–60

ELSEVIER

ISPRS Journal of Photogrammetry & Remote Sensing 54 (1999) 377–381

PHOTOGRAMMETRY & REMOTE SENSING

# Subject Index, Volume 54

**Accuracy**
Suitability of laser data for DTM generation: a case study in the context of road planning and design. 54/4 (Sep 99): 244–253

**Agriculture**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Airborne laser scanner**
Change detection of buildings using an airborne laser scanner. 54/2–3 (July 99): 148–152

**Airborne laser scanners (commercial firms)**
Airborne laser scanning: existing systems and firms and other resources. 54/2–3 (July 99): 164–198

**Airborne laser scanners (technical specifications)**
Airborne laser scanning: existing systems and firms and other resources. 54/2–3 (July 99): 164–198

**Airborne laser scanning**
Airborne laser scanning—present status and future expectations. 54/2–3 (July 99): 64–67

Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

A comparison between photogrammetry and laser scanning. 54/2–3 (July 99): 83–94

Suitability of laser data for deriving geographical information. A case study in the context of management of fluvial zones. 54/2–3 (July 99): 105–114

Two algorithms for extracting building models from raw laser altimetry data. 54/2–3 (July 99): 153–163

Airborne laser scanning: existing systems and firms and other resources. 54/2–3 (July 99): 164–198

**Airborne laser scanning**
Airborne laser scanning: basic relations and formulas. 54/2–3 (July 99): 199–214

**Airborne laser scanning (data processing chain)**
Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

**Airborne remote sensing**
Ionospheric effects on differential GPS applications during auroral substorm activity. 54/4 (Sep 99): 279–288

**Airborne SAR imagery**
Application of the Dubois-model using experimental synthetic aperture radar data for the determination of soil moisture and surface roughness. 54/4 (Sep 99): 273–278

**Applications**
A comparison between photogrammetry and laser scanning. 54/2–3 (July 99): 83–94

**Auroral region**
Ionospheric effects on differential GPS applications during auroral substorm activity. 54/4 (Sep 99): 279–288

**Automatic registration**
Automated reconstruction of 3D models from real environments. 54/1 (Feb 99): 1–22

**AVHRR**
Development of a 1-km landcover dataset of China using AVHRR data. 54/5 (Dec 99): 305–316

Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**AVIRIS**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Backscatter**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**Basic relations**
Airborne laser scanning: basic relations and formulas. 54/2–3 (July 99): 199–214

**Block adjustment**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**BRDF**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Building**
Change detection of buildings using an airborne laser scanner. (Murakami, H. 54/2–3 (July 99): 148–152

**Building detection**
Optimisation of building detection in satellite images by combining multispectral classification and texture filtering. 54/1 (Feb 99): 50–60

**Building extraction**
Extraction of buildings and trees in urban environments. 54/2–3 (July 99): 130–137

**Building modelling**
Two algorithms for extracting building models from raw laser altimetry data 54/2–3 (July 99): 153–163

**Bundle block adjustment**
Orientation of MOMS-02/D2 and MOMS-2P/PRIRODA imagery. 54/5 (Dec 99): 332–341

**Calibration**
Image sequence based automatic multi-camera system calibration techniques. 54/5 (Sep 99): 352–359

**Camera orientation**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**Change detection**
Change detection of buildings using an airborne laser scanner. 54/2–3 (July 99): 148–152

Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. 54/4 (Sep 99): 221–233

**China**
Development of a 1-km landcover dataset of China using AVHRR data. 54/5 (Dec 99): 305–316

**Classification**
Extraction of buildings and trees in urban environments. 54/2–3 (July 99): 130–137

Processing of laser scanner data—algorithms and applications. 54/2–3 (July 99): 138–147

**Classification accuracy**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**Close-range photogrammetry**
The 'Digital Projector'. Raytracing as a tool for digital close-range photogrammetry. 54/1 (Feb 99): 35–40

**Comparison**
A comparison between photogrammetry and laser scanning. 54/2–3 (July 99): 83–94

**Computer vision and photogrammetry**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**Continuous wave laser**
Airborne laser scanning—present status and future expectations. 54/2–3 (July 99): 64–67

**Co-occurrence matrix based filtering**
Optimisation of building detection in satellite images by combining multispectral classification and texture filtering. 54/1 (Feb 99): 50–60

**Corsica**
Mapping and monitoring net primary productivity with AVHRR NDVI time-series: statistical equivalence of cumulative vegetation indices. 54/5 (Dec 99): 325–331

**Crop growth**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Cumulative vegetation indices**
Mapping and monitoring net primary productivity with AVHRR NDVI time-series: statistical equivalence of cumulative vegetation indices. 54/5 (Dec 99): 325–331

**CW-lasers**
Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

**3D Accuracy analysis**
Airborne laser scanning: basic relations and formulas. 54/2–3 (July 99): 199–214

**Databases**
GeoHyp: an adaptive human interface for geologic maps and their databases. 54/4 (Sep 99): 234–243

**Dataset**
Development of a 1-km landcover dataset of China using AVHRR data. 54/5 (Dec 99): 305–316

**3D City Models**
Processing of laser scanner data—algorithms and applications. 54/2–3 (July 99): 138–147

**Developing countries**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

**Differential GPS**
Ionospheric effects on differential GPS applications during auroral substorm activity. 54/4 (Sep 99): 279–288

**Digital and analytical photogrammetry**
A comparison between photogrammetry and laser scanning. 54/2–3 (July 99): 83–94

**Digital Projector**
The 'Digital Projector'. Raytracing as a tool for digital close-range photogrammetry. 54/1 (Feb 99): 35–40

**Digital surface model**
Change detection of buildings using an airborne laser scanner. 54/2–3 (July 99): 148–152

**Digital terrain model**
Airborne laser scanning—present status and future expectations. 54/2–3 (July 99): 64–67

Laser scanning—surveying and mapping agencies are using a new technique for the derivation of digital terrain models. 54/2–3 (July 99): 95–104

**3D-modeling**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**3D modeling**
Extraction of buildings and trees in urban environments. 54/2–3 (July 99): 130–137

**DSM**
Suitability of laser data for DTM generation: a case study in the context of road planning and design. 54/4 (Sep 99): 244–253

**DTM**
Suitability of laser data for deriving geographical information. A case study in the context of management of fluvial zones. 54/2–3 (July 99): 105–114

Suitability of laser data for DTM generation: a case study in the context of road planning and design. 54/4 (Sep 99): 244–253

**DTM editing**
Laser scanning—surveying and mapping agencies are using a new technique for the derivation of digital terrain models. 54/2–3 (July 99): 95–104

**DTM generation**
A comparison between photogrammetry and laser scanning. 54/2–3 (July 99): 83–94

**3D view map**
Development of polygon shift method for generating 3D view map of buildings. 54/5 (Dec 99): 342–351

**Dynamic 3-D measurements**
Image sequence based automatic multi-camera system calibration techniques. 54/5 (Sep 99): 352–359

**Earth limb observations**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Environment**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

**Feature libraries**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**Filtering**
Processing of laser scanner data—algorithms and applications. 54/2–3 (July 99): 138–147

**Forest loss**
Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**Formulas**
Airborne laser scanning: basic relations and formulas. 54/2–3 (July 99): 199–214

**Fourier transform**
Mapping and monitoring net primary productivity with AVHRR NDVI time-series: statistical equivalence of cumulative vegetation indices. 54/5 (Dec 99): 325–331

**Fuzzy logic**
Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. 54/4 (Sep 99): 221–233

**Fuzzy sets**
Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. 54/4 (Sep 99): 221–233

**Geology**
GeoHyp: an adaptive human interface for geologic maps and their databases. 54/4 (Sep 99): 234–243

**Geometric reasoning**
Two algorithms for extracting building models from raw laser altimetry data. 54/2–3 (July 99): 153–163

**GIS**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

GeoHyp: an adaptive human interface for geologic maps and their databases. 54/4 (Sep 99): 234–243

**Global land cover change**
Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**Graphical user interface**
GeoHyp: an adaptive human interface for geologic maps and their databases. 54/4 (Sep 99): 234–243

**Ground control points**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**Hidden point algorithm**
Development of polygon shift method for generating 3D view map of buildings. 54/5 (Dec 99): 342–351

**Hydrographic survey**
Scanning laser mapping of the coastal zone: the SHOALS system. 54/2–3 (July 99): 123–129

**Hypermap**
GeoHyp: an adaptive human interface for geologic maps and their databases. 54/4 (Sep 99): 234–243

**Image orientation**
Orientation of MOMS-02/D2 and MOMS-2P/PRIRODA imagery. 54/5 (Dec 99): 332–341

**Image retrieval**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**Image sequences**
Image sequence based automatic multi-camera system calibration techniques. 54/4 (Sep 99): 352–359

**Imaging spectrometry**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Invariant moments**
Two algorithms for extracting building models from raw laser altimetry data. 54/2–3 (July 99): 153–163

**Ionospheric effects**
Ionospheric effects on differential GPS applications during auroral substorm activity. 54/4 (Sep 99): 279–288

**IRS-1C/1D PAN**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**Landcover**
Development of a 1-km landcover dataset of China using AVHRR data. 54/5 (Dec 99): 305–316

**Laser altimetry**
The Laser Vegetation Imaging Sensor: a medium-altitude, digitisation-only, airborne laser altimeter for mapping vegetation and topography. 54/2–3 (July 99): 115–122

**Laser range**
Automated reconstruction of 3D models from real environments. 54/1 (Feb 99): 1–22

**Laser ranging resolution and precision**
Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

**Laser scanner**
Processing of laser scanner data—algorithms and applications. 54/2–3 (July 99): 138–147

**Laser scanning**
Laser scanning—surveying and mapping agencies are using a new technique for the derivation of digital terrain models. 54/2–3 (July 99): 95–104

Suitability of laser data for DTM generation: a case study in the context of road planning and design. 54/4 (Sep 99): 244–253

**Laser scanning methods**
Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

**Lidar**
The Laser Vegetation Imaging Sensor: a medium-altitude, digitisation-only, airborne laser altimeter for mapping vegetation and topography. 54/2–3 (July 99): 115–122

Scanning laser mapping of the coastal zone: the SHOALS system. 54/2–3 (July 99): 123–129

**Mapping agencies**
Laser scanning—surveying and mapping agencies are using a new technique for the derivation of digital terrain models. 54/2–3 (July 99): 95–104

**Map revision**
Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. 54/4 (Sep 99): 221–233

**Matching**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**MDL**
Processing of laser scanner data—algorithms and applications. 54/2–3 (July 99): 138–147

**Metropolitan areas**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

**Modelling**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

**Modelling**
Processing of laser scanner data—algorithms and applications. 54/2–3 (July 99): 138–147

**Model sensitivity**
Application of the Dubois-model using experimental synthetic aperture radar data for the determination of soil moisture and surface roughness. 54/4 (Sep 99): 273–278

**MOMS**
Orientation of MOMS-02/D2 and MOMS-2P/PRIRODA imagery. 54/5 (Dec 99): 332–341

**Multiple view**
Automated reconstruction of 3D models from real environments. 54/1 (Feb 99): 1–22

**Multispectral classification**
Optimisation of building detection in satellite images by combining multispectral classification and texture filtering. 54/1 (Feb 99): 50–60

**NDVI**
Mapping and monitoring net primary productivity with AVHRR NDVI time-series: statistical equivalence of cumulative vegetation indices. 54/5 (Dec 99): 325–331

**Net primary productivity**
Mapping and monitoring net primary productivity with AVHRR NDVI time-series: statistical equivalence of cumulative vegetation indices. 54/5 (Dec 99): 325–331

**Normalised Difference Vegetation Index (NDVI)**
Development of a 1-km landcover dataset of China using AVHRR data. 54/5 (Dec 99): 305–316

**Object- and image models**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**Orbital constraints**
Orientation of MOMS-02/D2 and MOMS-2P/PRIRODA imagery. 54/5 (Dec 99): 332–341

**Orientation**
Image sequence based automatic multi-camera system calibration techniques. 54/4 (Sep 99): 352–359

**Photogrammetry**
Suitability of laser data for deriving geographical information. A case study in the context of management of fluvial zones. 54/2–3 (July 99): 105–114

**Photomodel**
The 'Digital Projector'. Raytracing as a tool for digital close-range photogrammetry. 54/1 (Feb 99): 35–40

**Planimetric accuracy analysis**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**Polygon shift method**
Development of polygon shift method for generating 3D view map buildings. 54/5 (Dec 99): 342–351

**Population-deforestation model**
Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**Population density**
Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**Position and orientation systems**
Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

**Potato**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**Principal component analysis**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Pulse lasers**
Airborne laser scanning—an introduction and overview. 54/2–3 (July 99): 68–82

**RADARSAT**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**Raytracing**
The 'Digital Projector'. Raytracing as a tool for digital close-range photogrammetry. 54/1 (Feb 99): 35–40

**Rectification**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**Red-edge index**
The use of imaging spectrometry for agricultural applications. 54/5 (Dec 99): 299–304

**Remote sensing**
Environmental analysis of metropolitan areas in Brazil. 54/1 (Feb 99): 41–49

Scanning laser mapping of the coastal zone: the SHOALS system. 54/2–3 (July 99): 123–129

Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. 54/4 (Sep 99): 221–233

Modelling for prediction of global deforestation based on the growth of human population. 54/5 (Dec 99): 317–324

**Rice**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**River management**
Suitability of laser data for deriving geographical information. A case study in the context of management of fluvial zones. 54/2–3 (July 99): 105–114

**Road planning and design**
Suitability of laser data for DTM generation: a case study in the context of road planning and design. 54/4 (Sep 99): 244–253

**Saco River**
Scanning laser mapping of the coastal zone: the SHOALS system. 54/2–3 123–129

**SAR**
Evaluation of RADARSAT Standard Beam data for identification of potato and rice crops in India. 54/4 (Sep 99): 254–262

**E-SAR sensor**
Application of the Dubois-model using experimental synthetic aperture radar data for the determination of soil moisture and surface roughness. 54/4 (Sep 99): 273–278

**Satellite images**
Optimisation of building detection in satellite images by combining multispectral classification and texture filtering. 54/1 (Feb 99): 50–60

**Satellite observations**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Segmentation**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**Semantic scene knowledge**
Automatic orientation and recognition in highly structured scenes. 54/1 (Feb 99): 23–34

**Sensor modelling**
Pass processing of IRS-1C/1D PAN subscene blocks. 54/4 (Sep 99): 289–297

**Shadow analysis**
Development of polygon shift method for generating 3D view map of buildings. 54/5 (Dec 99): 342–351

**Shape similarity**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**SHOALS**
Scanning laser mapping of the coastal zone: the SHOALS system. 54/2–3 (July 99): 123–129

**Soil moisture**
Application of the Dubois-model using experimental synthetic aperture radar data for the determination of soil moisture and surface roughness. 54/4 (Sep 99): 273–278

**Spaceborne imagery**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Spatial databases**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**Stmospheric refraction**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Substorm activity**
Ionospheric effects on differential GPS applications during auroral substorm activity. 54/4 (Sep 99): 279–288

**Surface roughness**
Application of the Dubois-model using experimental synthetic aperture radar data for the determination of soil moisture and surface roughness. 54/4 (Sep 99): 273–278

**Terminator observations**
Atmospheric refraction effects in Earth remote sensing. 54/5 (Dec 99): 360–373

**Terminology**
Airborne laser scanning: basic relations and formulas. 54/2–3 (July 99): 199–214

**Texture-map**
Automated reconstruction of 3D models from real environments. 54/1 (Feb 99): 1–22

**Three-line CCD cameras**
Orientation of MOMS-02/D2 and MOMS-2P/PRIRODA imagery. 54/5 (Dec 99): 332–341

**Topography**
The Laser Vegetation Imaging Sensor: a medium-altitude, digitisation-only, airborne laser altimeter for mapping vegetation and topography. 54/2–3 (July 99): 115–122

**Topology similarity**
An environment for content-based image retrieval from large spatial databases. 54/4 (Sep 99): 263–272

**Tree extraction**
virtual city models; 3D modeling; classification; building extraction 54/2–3 (July 99): 130–137

**Vegetation height**
The Laser Vegetation Imaging Sensor: a medium-altitude, digitisation-only, airborne laser altimeter for mapping vegetation and topography. 54/2–3 (July 99): 115–122

**Virtual city models**
3D modeling; classification; building extraction; tree extraction 54/2–3 (July 99): 130–137

**VRML**
The 'Digital Projector'. Raytracing as a tool for digital close-range photogrammetry. 54/1 (Feb 99): 35–40